

## **Evolution Standards Eagle Ridge Academy**

### **9.4.3.3.1**

**Describe how evidence led Darwin to develop the theory of natural selection and common descent to explain evolution.**

### **9.4.3.3.2**

**Use scientific evidence, including the fossil record, homologous structures, and genetic and/or biochemical similarities, to show evolutionary relationships among species.**

### **9.4.3.3.3**

**Recognize that artificial selection has led to offspring through successive generations that can be very different in appearance and behavior from their distant ancestors.**

### **9.4.3.3.4**

**Explain why genetic variation within a population is essential for evolution to occur.**

### **9.4.3.3.5**

**Explain how competition for finite resources and the changing environment promotes natural selection on offspring survival, depending on whether the offspring have characteristics that are advantageous or disadvantageous in the new environment.**

### **9.4.3.3.6**

**Explain how genetic variation between two populations of a given species is due, in part, to different selective pressures acting independently on each population and how, over time, these differences can lead to the development of new species.**